

BAGDASARYAN, B. A.

Bagdasaryan, B. A. - "The biology of Bruchidus holosericeus Schonh. in the vicinity of Yerevan", Sbornik nauch. trudov (Yerevansk. gos. un-t im. Molotova), Vol. XXVIII, 1948, p. 73-78, (In Armenian, resume in Russian).

SO: U-4110, 17 July 53, (Letopis 'Zhurnal 'nykh Statey, No. 19, 1949).

BAGDASARYAN, E. R.

✓ Synthesis of derivatives of α -alkoxybenzoic acids. VI. 85-6°; iso-Am, Me, 105-0°; iso-Am, Et, 80-7°. Followed by dialkylaminopropyl esters of α -alkoxybenzoic acids using methiodides ρ - $ROCH_2COOSCl_2CH_2CH_2NR_2MeI$ (R , and some of their salts, A. L. Mndzhanyan and P. B. K., and m.p. given) are reported in 80-96% yields: Me, Me, 37-52°(lit. Küssan; Armenian summary, 52)(1954); cf. Pr, Me, 175-6°; Pr, Et, 91-9°; Et, Et, 83-1°; C.A. 50, 2454.—The following $Me_2NCH_2CH_2CH_2SC(O)$ 76-7°; Am, Me, 142-3°; Am, Et, 80-1°; iso-Pr, Me, C_6H_5OR-p are reported without description of the methods of synthesis (R, % yield, b.p., n_D²⁰, and m.p. of picrate): Et, —; iso-Am, Me, 134-5°; iso-Am, Et, —. G. M. K.

(1) *AA*

b₁ 195-8°, 1.0703, 1.5522, 122-3°; Pr, 75, b₁, 200-3°, 1.0023, —, 120-8°; Bu, 70.2, b, 205-10°, —, 129-30°; Am, 80, b₁, 203-6°, 1.0316, 1.5395, 123-4°; iso-Pr, 83.25, b₁, 188-0°, 1.0334, 1.5141, 116-18°; iso-Bu, 70.9, b₁ 210-18°, 1.0415, 1.5395, 121°; iso-Am, 87.7, b, 202-4°, 1.0398, 1.5418, 107-9°. Et, ρ - $CH_2CH_2SC(O)C_6H_5OR-p$ (as above): Me, 77, b₁, 193-3°, 1.0527, 1.5164, 115-10°; Et, 87.5, b₁, 198-200°, 1.0248, 1.5413, 110-11°; Pr, 80, b₁, 205-8°, 1.008, 1.5188, 105-6°; Bu, 81.1, b₁, 258-63°, 1.0114, 1.5316, 92-3°; Am, 80, b₁, 215-20°, 1.0031, 1.5288, 95-0°; iso-Pr, 83.4, b₁, 188-8°, 1.0214, 1.5355, 103-4°; iso-Bu, 80.1, b₁, 193-0°, 1.0095, 1.5278, 73-4°; iso-Am, 70.1, b₁, 199-204°, 0.9935, 1.5221, 87-8°. The following HCl salts, ρ - $ROCH_2COOSCH_2CH_2NR_2^+HCl^-$ were obtained in 90.6-99% yield (R, R', and m.p. given): Me, Me, 158-7°; Me, Et, 127-8°; Et, Me, 138-9°; Et, Et, 143-4°; Pr, Me, 115-16°; Pr, Et, 99-100°; Bu, Me, 141-2°; Bu, Et, 92-3°; Am, Me, 123-4°; Am, Et, 80-1°; iso-Pr, Me, 93-4°; iso-Pr, Et, 101-2°; iso-Bu, Me, 140-1°; iso-Bu, Et,

BAGDASARYAN

MNDZHOYAN, A.L.; DIVANYAN, N.M.; MNDZHOYAN, O.L.; BAGDASARYAN, E.P.

Methyl ester of 5-butylmercaptomethylfuran-2-carboxylic acid.
Sint.geterotsikl.socd. no.1:26-27 '56. (MIRA 10:11)
(Furoic acid)

BAGDASARYAN, E.P.

MNDZHOYAN, A.L.; GRIGORYAN, M.T.; MNDZHOYAN, O.L.; BAGDASARYAN, E.P.

β -chloroethyl ester of furan-2-carboxylic acid. Sint.geterotsikl.
soed. no.1:74-75 '56. (MIRA 10:11)
(Furoic acid)

BAGDASIRYAN, E. R.

0
Mrec 3

Me. Me: NCU: UIC: UIC: M. 00-576 1010 1010-5 1/2

1. Deystritel'nyy chlen AN Armyanskoy SSR.
2. Laboratoriya formatsveticheskoy khimii Akademii nauch Armyanskoy SSR.

100% - 250 mg. N,N-dimethyl-*N*-methylbenzylamine

80.8% 177-5° 3, 0.9782, 1.445, exocet, 101.5°, methiodide.

1.447, methiodide, 103-8°, chloroform, 145-30°, *M*, *E*, *D*, *N*, *CH₂CH₂CHMe*, 46.15%, 175-8° 2, 0.9781, 1.446, ..., *E*,

H, *N*, *CH₂CH₂CHMe*, 51.45%, 145-30°, *M*, *E*, *D*, *N*, *CH₂CH₂CHMe*, 44.4%

exocet, 115-30°, methiodide, 103-8°, *M*, *E*, *D*, *N*, *CH₂CH₂CHMe*, 44.4%

methiodide, 235-7°, ethiodide, 107-9°, *M*, *E*, *N*, *CH₂CH₂CHMe*, *CHMe*, 01.4%, 182-7°/4, 0.9748, 1.445, iodate, 125-30°,

methiodide, 124-0°, ethiodide, 151-0°, *M*, *E*, *N*, *CH₂CH₂CHMe*, *CH₂*, 63.2%, 197-200°/3, 0.9781, 1.445, ..., *E*, *H*, *N*, *CH₂*, *M*, *E*, *D*, *N*, *CH₂CH₂CHMe*, 44.4%

exocet, 115-30°, methiodide, 103-8°, *M*, *E*, *D*, *N*, *CH₂CH₂CHMe*, 44.4%

100% methiodide, 124-0°, bromoform, 107-9°, *M*, *E*, *D*, *N*, *CH₂CH₂CHMe*, 56.3%, 190°/3, 0.9877, 1.447, ..., *E*, *E*, *N*, *CH₂CH₂CHMe*, *NEt₂*, 80.22%, 128-5°, *B*, 0.9832, 1.446, ..., *E*, *D*, *N*, *CH₂CH₂CHMe*, *NEt₂*, 51.7%, *M*, *K*, *Alpech*

2/1
AM 9/9

AKEDASHAK YHIV, L.R.

MNDZHOYAN, A.L.; MNDZHOYAN O.L.; BAGDASARYAN, E.R.

Research on furan derivatives. Report 8. Dokl. AN Arm. SSR. 23
no. 4:175-181 '56. (MIRA 10:1)

1. Deystvitel'nyy chlen Akademii nauk Armyanskoy SSR (for A.L.
Mndzhoym) 2. Laboratoriya farmatsevticheskoy khimii Akademii nauk
Armyanskoy SSR.
(Furan)

MNDZHOGYAN, O.L.; BAGDASARYAN, M.R.; GRIGORYAN, A.N.

Diethyl ester of furfurylidene malonic acid. Sint. geterotsikl.
soed. no. 2:40-42 '57. (MIRA 11:7)
(Furamalonic acid)

MNDZHOYAN, A.L., akademik; MNDZHOYAN, O.L.; BAGDASARYAN, E.R.

Research in the field of furan derivatives. Report No.22: Some dialkylaminoethyl esters of furylalkyl and furyl p-alkoxyphenyl carbinols.
Dokl. AN Arm. SSR 29 no.1:41-47 59. (MIRA 12:11)

1. Institut tonkoy organicheskoy khimii Akademii nauk Armyanskoy SSR. 2. AN Armyanskoy SSR (for A.L. Mndzhoyan).
(Furan) (Methanol)

MEDZHOTIAN, O.L.; BAGDASARYAN, E.R.

Tetrahydrofurfurylbenzylacetic acid. Sint. geterotsikl. soed.
no. 4:77-80 '59. (MIRA 13:11)
(Hydrocinnamic acid)

MNDZHOYAN, O.L.; BAGDASARYAN, E.R.

Derivatives of substituted acetic acids. Report No.24:
Dialkylaminoalkyl esters of p-alkoxybenzilphenylacetic
acids. Izv.AN Arm. SSR. Khim.nauki 15 no.4:371-377
'62. (MIRA 15:11)

1. Institut tonkoy organicheskoy khimii AN Armyanskoy
SSR.
(Acetic acid)

Boguslawski G.

KORZYBSKI T., BAGDASARIAN G.

Szybka chemiczna metoda oznaczania penicyliny. /Rapid method for
quantitative determination of penicillin/ Med. dosw. mikrob. 1:4
1949 p. 632-8.

1. Of the National Institute of Hygiene.
CIML Vol. 20, No. 2 Feb 1951

BAGDASARYAN, G.

WOZNICKA W., BAGDASARYAN G., FINKOWICZ W.

Badania nad wydalaniem streptomycyny z ustroju chorych, leczonych streptomycyną. /Studies on excretion of streptomycin by patients treated with it/ Med. dosw. mikrob. 1:4 1949 p. 639-52.

1. Of the National Institute of Hygiene and of the Department of the Polish Tuberculosis Institution of Wolski Hospital in Warsaw.
CIME Vol 20, No. 2 Feb 1951

BAGDASARIAN, G.; KURYLOWICZ, W.; WOZNICKA, W.

Chemical and biologic methods of determination of streptomycin in organic fluids. Med.dosw.mikrob. 2 no.2:172-173 1950. (CIML 20:6)

1. Summary of report given at 10th Congress of the Polish Microbiological and Epidemiological Society held in Gdansk, Sept 1949. (Warsaw.)

BAGDASARIAN G. , KORZYBSKI T.

Badania nad jodometryczna metoda oznaczania penicyliny.
Investigations on the iodometric method of penicillin deter-
mination/ Med. dosw. mikrob. 2:3-4 1950 p. 468-89.

l. Of the National Institute of Hygiene in Warsaw.
CMIIL Vol. 20, No. 10 Oct 1951

BAGDASAR'YAN, G.A. (Moskva)

Role of the external environment in the incidence of poliomyelitis. Fel'd. i akush. 25 no.3:3-6 Mr '60. (MIRA 13:6)
(POLIOMYELITIS) (MAN--INFLUENCE OF ENVIRONMENT)

BAGDASAR'YAN, G.A.

Role of sewage and irrigation fields in the incidence of polio-myelitis; survey of the literature. Zhur.mikrobiol.epid.i immun. 32 no.2:84-87 F '61.
(MIRA 14:6)

1. Iz Instituta obshchey i kommunal'noy gigiyeny imeni Sysina
AMN SSSR.
(POLIOMYELITIS) (SEWAGE IRRIGATION)

ZEYTLENOK, N.A.; LOVTSEVICH, Ye.L.; BAGDASAR'YAN, G.A.

Different reaction of attenuating and virulent strains of poliomyelitis virus to the action of chlorine and soil adsorbents. Vop. virus. 7 no. 1:83-87 Ja-F '61.
(MIRA 14:4)

1. Institut po izucheniyu poliomielita AMN SSSR, Moskva.
(POLIOMYELITIS) (CHLORINE) (SOILS—MICROBIOLOGY)

BAGDASAR'YAN, G.A., mladshiy nauchnyy sotrudnik

Survivability of the poliomyelitis virus and other enteroviruses on vegetables. Gig. i san. 27 no.3:97-99 Mr '62. (MIRA 15:4)

1. Iz Instituta obshchey i kommunal'noy gigiyeny imeni A.N.Sysina
AMN SSSR i Instituta poliomyelita i virusnykh entsefalitov AMN SSSR.
(POLIOMYELITIS) (VEGETABLES---MICROBIOLOGY)

BAGDASAR'YAN, G.A.

Materials form laboratory studies of the survival in the soil of some enteroviruses (poliomyelitis, ECHO, Coxsackie). Vop.virus.7 no.5:551-554 S-0 '62. (MIRA 15:11)

1. Institut obshchey i kommunal'noy gigiyeny imeni A.N.Sysina AMN SSSR i Institut poliomiyelita i virusnykh entsefalitov AMN SSSR, Moskva.

(SOILS—MICROBIOLOGY) (ECHO VIRUSES)
(COXSACKIE VIRUSES) (POLIOMYELITIS VIRUSES)

BAGDASARYAN, G.A.

Survival of viruses of the enterovirus group (Poliomyelitis, ECHO, Coxsackie) in soil and on vegetables. J. hyg. epidem. (Praha) 8 no.4:497-505 '64.

1. Sysin Memorial Institute of General and Community Hygiene, Academy of Medical Sciences of the USSR, Moscow.

BAGDASARYAN, G.A., inzh.

Storage and transportation of flour without containers. Mekh. i
avtom. proizv. 18 no.12:31 D '64.
(MIRA 18 3)

S/020/60/133/006/027/031XX
B016/B054

AUTHORS: Babayan, A. T., Indzhikyan, M. G., and Bagdasaryan, G. B.

TITLE: Formation of Conjugate Diene Amines During the Interaction of Mono- and Diquaternary Salts of 1,4-Diamines With Aqueous Alkali

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 6,
pp. 1334-1336

TEXT: The authors report on their investigations of the reactions of mono- and diquaternary salts of 1,4-di-(dimethyl-amino)-2-methyl butene-2. They attempted to find out whether the double 1,4-cleavage of the di-ammonium salt takes place simultaneously or by steps. The authors proved that the protonization of the hydrogen atoms of C₄ is suppressed by the conjugation of the methyl group. Thus, the order of the mentioned cleavage reactions is predetermined according to scheme (I).

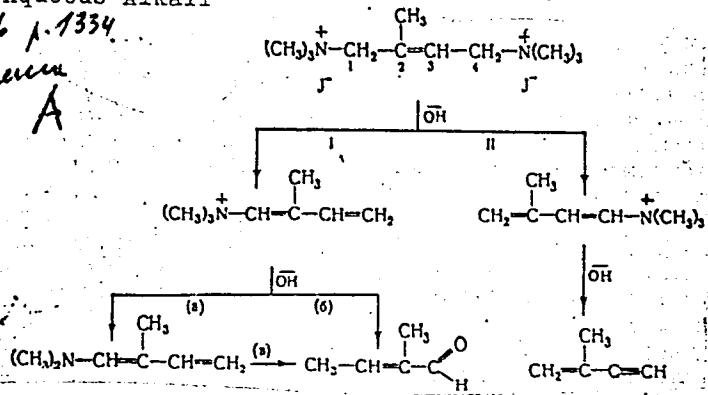
Card 1/6

Formation of Conjugate Diene Amines During
the Interaction of Mono- and Diquaternary
Salts of 1,4-Diamines With Aqueous Alkali

S/020/60/133/006/027/031XX
B016/B054

D133, 6 p. 1334

Schema
A



This statement by the authors is based on the results of their experiments. From the products of the reaction of the iodine salt of 1,4-di-(trimethylammonium)-2-methyl butene-2 with aqueous alkali, they isolated an aldehyde (corresponding to the dimer of methyl crotonic aldehyde), as well as a high-boiling amine product (apparently a condensation product of methyl crotonic aldehyde with 1-dimethyl-amino-(methyl)-butadiene). The same

Formation of Conjugate Diene Amines During
the Interaction of Mono- and Diquaternary
Salts of 1,4-Diamines With Aqueous Alkali

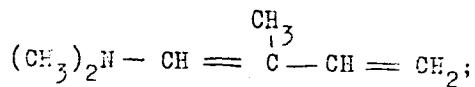
S/020/60/133/006/027/031XX:
B016/B054

result was obtained in the transition from a mixture of quaternary ammonium salt with alkali to an ammonium base. The authors did not succeed (contrary to a statement made by Ya. M. Slobodin, Ref. 5) in detecting even traces of 2-methyl vinyl acetylene in the reaction products. This fact speaks in favor of scheme I. The authors further cleaved the monoiodo methyl derivative of 1,4-di-(dimethyl-amino)-2-methyl butene-2 by aqueous alkali at a lower temperature (120°C). Here, the same products were formed as in the cleavage of the diquaternary salt. Subsequently, the authors cleaved - in vacuo and at $105\text{-}107^{\circ}\text{C}$ - the hydroxide they had produced by treating the monoiodo methylate of 1,4-di-(dimethyl-amino)-2-methyl butene-2 with an aqueous suspension of the silver oxide. Here, they isolated 1-dimethyl-amino-2-methyl butadiene-1,3 (yield about 40% of the theoretical one). The properties of this substance are described. From the fact that this substance forms dimethyl amine, as well as a corresponding derivative of α -methyl crotonic aldehyde, with the solutions of semicarbazide, 2,4-dinitro-phenyl hydrazine, and hydroxylamine, the authors conclude that the methyl in the diene amine takes a β -position with respect to the amino group:

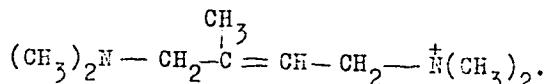
Card 3/6

Formation of Conjugate Diene Amines During
the Interaction of Mono- and Diquaternary
Salts of 1,4-Diamines With Aqueous Alkali

S/020/60/133/006/027/031XX:
B016/B054



consequently, the position of the methyl in the monoiodo methylate used
is:



On the basis of these results, the authors assume that the second cleavage
step of diiodo methylate (step (a) of scheme I) requires a higher tempera-
ture ($140-145^\circ\text{C}$) than was hitherto applied. To settle this question, they
studied the behavior of two other diquaternary ammonium salts (I) and (II)
towards aqueous alkali. It was proved that the alkaline cleavage of (I)
already occurred at the temperature of the boiling water bath (see scheme
B). The similar cleavage of (II) is illustrated by scheme C. Thus, the
authors proved that the diquaternary ammonium salts (I) and (II) are cleft
by alkali according to scheme I, i.e., exclusively via step (a) (see
scheme A). There are 5 Soviet references.

Card 4/6

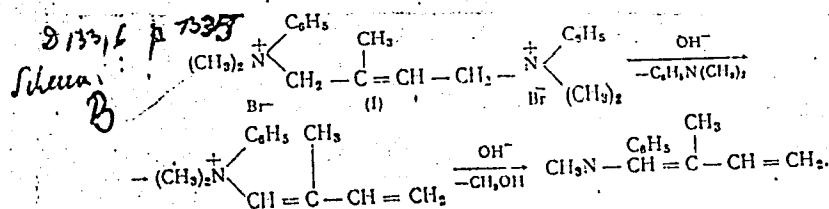
Formation of Conjugate Diene Amines During
the Interaction of Mono- and Diquaternary
Salts of 1,4-Diamines With Aqueous Alkali

S/020/60/133/006/027/031XX
B016/B054

ASSOCIATION: Institut organicheskoy khimii Akademii nauk ArmSSSR
(Institute of Organic Chemistry of the Academy of Sciences
Armyanskaya SSR)

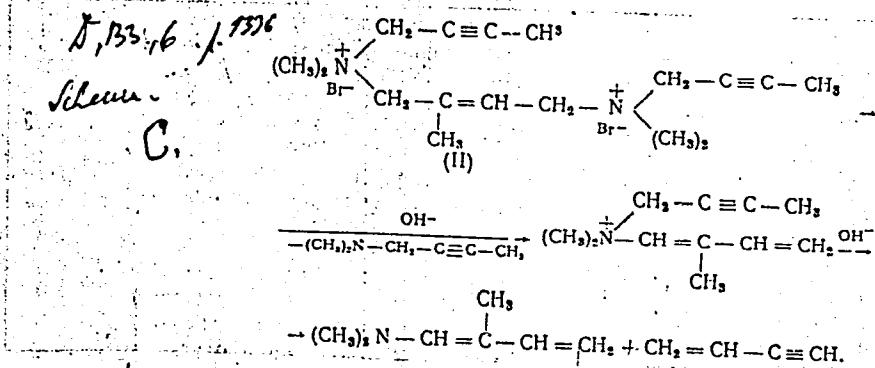
PRESENTED: April 12, 1960, by I. L. Knunyants, Academician

SUBMITTED: April 10, 1960



Cand. 5/6

S/020/60/133/006/027/031XX
B016/B054



BABAYAN, A.T.; INDZHIKYAN, M.G.; BAGDASARYAN, G.B.

New reaction of the rearrangement and splitting of quaternary ammonium salts. Dokl. AN Arm. SSR 34 no.2:75-82 '62. (MIRA 15:4)

1. Institut organicheskoy khimii AN Armyanskoy SSR. 2. Chlen-korrespondent AN Armyanskoy SSR (for Babayan).
(Ammonium salts)

BABAYAN, A.T.; INDZHIKYAN, M.G.; BAGDASARYAN, G.B.

Amines and ammonium compounds. Part 21: Rearrangement-cleavage of ammonium salts containing α , β - and γ -unsaturated groups. Zhur. ob. khim. 34 no. 2:411-415 F '64. (MIRA 17:3)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

BABAYAN, A.T.; INDZHIKYAN, M.G.; BAGDASARYAN, G.B.; DAVTYAN, N.M.

Amines and ammonium compounds. Part 22: Rearrangement-cleavage of ammonium salts containing -chloroethyl and allyl-type groups taking place under the effect of aqueous alkali. Zhur. ob. khim. 34 no. 2:416-421 F '64. (MIRA 17:3)

1. Institut organicheskoy khimii AN ArmSSR.

BABAYAN, A.T.; INDEHIKYAN, M.G.; BAGDASARYAN, G.B.

Amines and ammonium compounds. Part 29: Alkaline decomposition
of piperazinium salts containing the allyl-type group. Izv. AN
Armen. SSR. Khim. nauki 18 no.4: 347-350 '65.

Iz. Institut organicheskoy khimii AN Armyanskoy SSR. Submitted
March 21, 1964.

(MIRA 38:12)

BAGDASARYAN, G.P.

Nepheline-syenites of the Pambak Range [with summary in English].
Izv. AN Arm. SSR. Est. nauki no. 1:19-35 '47. (MLRA 9:8)

1. Institut geologicheskikh nauk AN Armyanskoy SSR.
(Pambak Range--Rocks, Igneous)

USSR.

Alkalic pegmatites of Central Armenia. G. P. Haydasaryan. Doklady Akad. Nauk Armyan. S.S.R. 19, 117-120 (1957) [in Russian].—The pegmatites described are genetically and locally connected with the Tasharsk intrusions. Mineralogically, these pegmatites consist of K feldspar 40-50%, nepheline 35-40%, alk. amphibole and pyroxene 8-15%, melanite garnet 0-10%, and accessories (sphene, fluorite, zircon, apatite, etc.). Alkalic pegmatites are comparatively rare and do not fit into A. E. Fersman's classification which, while generally accepted, holds only for the much commoner acid (granite) pegmatites, as does also the very recent classification proposed by K. A. Vlasov. B. believes that the Vlasov scheme might be extended to include also the alkalic pegmatites. V. H. Gotschalk

BAGDASARYAN, G.P.

GP ✓ Petrogenetic particularities of porphyritic syenito-granites
in the Amzachimansk Intrusion, Armenian S.S.R. G.P.
Bagdasaryan. *Invest. Akad. Nauk Armyan. S.S.R. Ser.
Geol. Mat.; Zetishen. i Tekh. Nauk* 8, No. 2, 45-61(1955)(in
Russian; Armenian summary).—After describing the geo-
graphical position of the Amzachimansk intrusion (I), its
age and its morphology, the petrographic characterization
of porphyritic syenito-granites (II) in I is given and the gene-
sis of II is discussed. Elisabeth Darabash

BAGDASARYAN, G.P.

Petrography of alkaline igneous rocks of Armenian
S. S. R. G. P. Bagdasaryan (Inst. Geol. Sci., Erevan).
Invest. Akad. Nauk SSSR, Ser. Geol. 1956, No. 2, 29-38. — 62
A report of petrographic properties, conditions of forma-
tion, and genesis of igneous rocks of Armenian S. S. R.
A table of rock analyses is given, as are photomicrographs
of the rocks studied. Gladys S. Macy

Lithology and Conditions of Formation of Paleocene Deposits on Khvalynskiy Right Bank of Volga.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 18941.

Author : G.P. Bagdasaryan, A.T. Veguni.

Inst : Academy of Sciences of Armenian SSR.

Title : Lithology and Conditions of Formation of Paleocene Deposits on Khvalynskiy Right Bank of Volga.

Orig Pub : Izv. AN ArmSSR, Fiz.-Matem., Yestestv. i Tekhn. N., 1956, 9, No 4, 33-54.

Abstract : The comparison of results of chemical analyses of investigated sands and sandstones shows an extreme similarity of their chemical composition. The same was found at the comparison of their schlich and mineralogical compositions. On these grounds the author surmises that the genesis of sandstones has been connected with the diagenesis of sands.

Card 1/1

-54-

BAGDASARYAN, G.P.

The contact and postmagmatic phenomena related to complex alkaline rocks in central Armenia. G. P. Bagdasaryan. *Izvest. Akad. Nauk Armjan. S.S.R., Fiz.-Mat., Estestv. i Tekh. Nauki* 9, No. 8, 37-53 (1968) (in Russian).—The rocks of contact zones of Tejsar consist of skarn marble, hybrid rock and contact hornfels. The postmagmatic processes related to intrusion are: (a) substitution, pelitization, and sericitization of the feldspar; (b) zeolitization, carbonatization, and calcification of nephelines and pseudo-tourmaline syenites accompanied by formation of analcite, felsic zoisite; (c) substitution of monoclinic pyroxene by hornblende and biotite and/or epidote, zoisite, and magnesite; (d) substitution of the primary and secondary hornblende by biotite and other minerals; (e) pyritization. Chemical analyses are given.

M. G. Armanian

Inst. Geol. Sci., AS Arm SSR

BAGDASARYAN, G.P.

Recent data on the age of certain intrusive masses in Armenia.
Dekl. AN Arm. SSR 28 no.2:85-90. '59. (MIRA 12:6)

1. Institute geologicheskikh nauk AN ArmSSR. Predstavlene aka-
demikom AN ArmSSR S.S. Mkrtchyanem.
(Armenia--Rocks, Igneous)

BAGDASARYAN, G.P.; GUKASYAN, R.Kh.

Age of Paleozoic intrusions in the Armenian S.S.R. Izv. AN
Arm.SSR.Geol.i geog.nauki 14 no.4:23-36 '61. (MIRA 14:9)

1. Institut geologicheskikh nauk AN Armyanskoy SSR.
(Armenia--Geological time)

BAGDASARYAN, G.P.; GUKASYAN, R.Kh.; MNATSAKANYAN, A.Kh.

Recent data on the geochronological scale of absolute chronology
according to the materials of the Armenian S.S.R. Dokl. AN Arm.
SSR 33 no.4:181-185 '61. (MIRA~15:1)

1. Institut geologicheskikh nauk AN Armyanskoy SSR. Predstavleno
akademikom AN Armyanskoy SSR K.N.Paffengol'tsem.
(Geological time)

BAGDASARYAN, G.P.

"The Tezharsk alkaline subvolcano."

This paper presented at the 12th General Assembly of the
IUGS, Helsinki, July 1960.

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103010010-5

BAGDASARYAN, G.P.

Achievements of petrographic studies in the Armenian S.S.R.
Iz ist. est. i tekh. 2:278 '62. (MIRA 18:4)

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103010010-5"

ABOVYAN, S. B.; BAGDASARYAN, G. P.; KAZARYAN, G. A.; KARAPETYAN, K. I.;
MALKHASIAN, E. G.; MELIKSETYAN, B. M.; MNATSAKANYAN, A. Kh.;
CHIBUKHICHYAN, Z. O.; SHIRINYAN, K. G.; MELKONYAN, R. L., otv.
red.; CHAKHALYAN, TS., tekhn. red.; NUNYAN, S., tekhn. red.

[Chemical composition of igneous and metamorphic rocks in the
Armenian S.S.R.] Khimicheskie sostavy izverzhennykh i metamor-
ficheskikh gornykh porod Armianskoi SSR. [By] S. B. Abovian i dr.
Erevan, Izd-vo Akad. nauk Armianskoi SSR, 1962. 433 p.

(MIRA 16:2)

1. Akademiya nauk Armyanskoy SSR, Eriwan. Institut geologiche-
skikh nauk.

(Armenia—Rocks, Igneous—Analysis)

(Armenia—Rocks, Crystalline and metamorphic—Analysis)

BAGDASARYAN, G.P.; CHIBUKHCHYAN, Z.O.

Petrography and conditions governing the formation of the
Lermontovo gabbroic intrusive. Zap.Arm. otd.Vses.min.~~ob~~-va no.2:
103-117 '63. (MIRA 16:10)

BARATOV, R.B.; BAGDASARYAN, G.P.; MEL'NICHENKO, A.K.; GUKASYAN, R.Kh.

Absolute age of the biotites of porphyry like granites in the
Varzob Basin (southern Gissar Range). Dokl. AN Tadzh. SSR 6
no. 5:28.30 '63. (MIRA 17:4)

1. Institut geologii AN Tadzhikskoy SSR. 2. Chlen-korrespondent
AN Tadzhikskoy SSR (for Baratov).

AFANAS'YEV, G.D.; BAGDASARYAN, G.P.; GARRIS, M.A.; KHAMRABAYEV, I.Kh.

Materials on dating the boundaries between some geological systems and epochs. Izv. AN SSSR. Ser. geol. 28, no. 11: 7-31 N'63. (MIRA 17:2)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.

ARAKELYAN, R.A.; VEGUNI, A.T.; BAL'YAN, S.P.; SAYADYAN, Yu.V.;
ASRATYAN, V.P.; BAGDASARYAN, G.P.; MALKHASIAN, E.G.;
ARUTYUNYAN, A.R.; ARUTCHYAN, A.G., red.; ASLANYAN, A.I., red.;
GOGINYAN, V.Y., red.; GULYAN, E.Kh., red.; KAZARYAN, S.V., red.;
MKRTCHYAN, K.A., red.; TSAMERYAN, P.P., red.

[Study of the geology of the U.S.S.R.] Geologicheskaja izuchenost' SSSR. Erevan, Izd-vo AN Arm. SSR Vol.48. No.1.
1964. 157 p. (MIRA 18:6)

BAGDASARYAN, G. P., SUKOSTAN, R. Kh.

Absolute age of some igneous rocks in Eastern Siberia. Geol.
i geofiz. no. 4:176-178 '65. (MIRA 18:8)

1. Institut geologicheskikh nauk AN Armyanskoy SSR, g. Yerevan.

BAGDASAR'YAN, G.S., inzh.

Draining the Lebedi strip mine of the Kursk Magnetic Anomaly.
Mont. i spets. rab. v stroi. 25 no.3:5-8 Mr '63. (MIRA 16:3)

1. Trest Soyuzshakhtoosusheniye.

(Kursk magnetic anomaly—Drainage)

LEYFEROV, Mikhail Yakovlevich; RAGDASAR'YAN, Georgiy Stepanovich; FUKSON,
M.N., otvetstvennyy redaktor; SMIRNOV, L.V., redaktor izdatel'stva;
NADENINSKAYA, A.A., tekhnicheskiy redaktor

[The "LIU-2" needle pump for lowering around water] Iglofil'trovaya
vodoponizitel'naya ustanovka LIU-2. Moskva, Ugletekhizdat, 1956.
37 p.

(Pumping machinery)

(MIRA 10:1)

BAGDASAR'YAN, G.S., inzhener; KHEYSTVER, N.L., inzhener.

Using light borehole filter pumps in open pit mining. Melh.trud.rab.
10 no.10:25-26 O '56. (MIRA 10:1)
(Strip mining) (Mine pumps)

L 21114-65 EWP(m)/EWA(h)/EWP(k)/ET(s)/EWT(l)/EAT(n)/FIS(k)/EIA(d)/E/A(l)/
E.P(w)/E.P(v) Pd-1/f-4/Peb ADD(f)-1/AFT(f) 21
ACCESSION NR: AP5002595 S/0179/64/000/005/0077/0082

AUTHOR: Ambartsumyan, S. A. (Yerevan); Bagdasaryan, G. Ye. (Yerevan)

TITLE: Flutter of a cylindrical shell in a high-temperature field

SOURCE: AN SSSR. Izvestiya. Mekhanika i mashinostroyeniye, no. 5,
1964, 77-82

TOPIC TAGS: cylindrical shell, cylindrical shell flutter, shell
flutter speed, infinite plate, flutter speed, plate flutter, plate
flutter speed

ABSTRACT: The flutter of an infinite circular cylindrical shell in a longitudinal supersonic high-temperature gas flow is analyzed. It is assumed that only the elasticity modulus of the shell material varies with the time-dependent temperature. The analysis is based on the Kirchhoff-Love hypothesis on preservation of normals and on the Neumann hypothesis on the absence of shear in an infinitely small shell element subjected to temperature variation; conventional simplifications of the theory of shells with a large index of variation are used. An expression for determining the critical (flutter) speed at any instant

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ACCESSION NR: AP5002595

of a given time interval is derived for the case when the elasticity modulus varies linearly with temperature and the temperature linearly with time. The procedure of extending the results obtained to an infinite plate is indicated and formulas for the flutter speed are deduced. Orig. art. has: 39 formulas.

ASSOCIATION: none

SUBMITTED: 14Apr64 ENCL: 00 SUB CODE: AS, ME

NO REF SOV: 010 OTHER: 001 ATD PRESS: 3164

Cord 2/2

AMBARTSUMYAN, S.A.; BAGDASARYAN, G.Ye.

Flutter of a plate located in a temperature field. Dokl.
AN Arm. SSR 39 no. 3:141-147 '64. (MIRA 18:1)

1. Institut matematiki i mekhaniki AN ArmSSR. 2. Chlen-korrespondent
AN ArmSSR (for Ambartsumyan).

BAGDASARYAN, G.Yo.

Stability of an anisotropic layered cylindrical shell in a
hypersonic gas flow. Dokl. AN Arm. SSR 39 no.5:271-278 '64.

(MIRA 18:2)

1. Institut matematiki i mekhaniki AN ArmSSR. Submitted May 20,
1964.

L 30280_65 FWD(m) DPP EMU(h) bwo(k) 7-1-57 1000103010010-5

REVIEWED AND APPROVED

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REVIEWED AND APPROVED

SOURCE: AN ArmSSR. Doklady, v. 39, no. 5, 1964, 271-278

TOPIC TAGS: gas flow, supersonic flow, flutter, critical velocity

ABSTRACT: The article considers a circular cylindrical shell of infinite length and constant thickness, made up of an arbitrary number of homogeneous and anisotropic media, located in a supersonic stream of compressible gas flowing in a direction parallel to the shell axis. The hypothesis of undeformed normals is deemed applicable to the entire packet of layers making up the shell, with particular attention given to the case of orthotropic layers whose principal geometrical and physical directions do not coincide. Solutions of the equations of motion yield the critical flutter velocity. The stability of the solutions is discussed. The results show that in the case of an orthotropic shell the critical flutter

Card 1/2

L 39389-65

ACCESSION NO: AP5004281 /

velocity depends noticeably on the orientation of the principal elasticity directions of the shell-layer material, and is a periodic function of the angle between the direction of the wind and the direction of the principal elasticity directions. Corrections for minimization of the flutter velocity are discussed. Orig. ext. b&w.

DISCUSSION OF THE STABILITY OF A SHELL-LAYER MATERIAL WITH ANISOTROPIC ELASTICITY DIRECTIONS AND ITS CORRECTION FOR MINIMIZATION OF THE FLUTTER VELOCITY

NO. 5004281

MARCH 1965

Card 2/2 p. 1

L 26335-65 EIT(d)/EMP(e)/EMP(g)/EIA(h) AFFTC/APG EM

ACCESSION NR: AP5002648

S/0252/64/039/003/0141/0147

AUTHORS: Ambartsumyan, S. A. (Corresponding member AN ArmSSR);
Bagdasaryan, G. Ye.

TITLE: Flutter in a plate in a temperature field

SOURCE: AN ArmSSR. Doklady, v. 39, no. 3, 1964, 141-147

TOPIC TAGS: flutter, flat plate, thermal stress, vibration effect,
supersonic vibration, elastic modulus, critical velocity

ABSTRACT: The article deals with an isotropic plate of constant thickness, oriented in a Cartesian system x, y, z in such a way that the mid-plane of the undeformed plate coincides with the coordinate plane xy. It is assumed that only the modulus of elasticity of the material depends on the temperature, which varies only in the z direction and in time. A supersonic stream of compressible gas, with unperturbed velocity directed along the ox axis, is assumed

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L 26335-65

ACCESSION NR: AP5002648

to flow around the plate. The authors solve the differential equation of motion of this plate under certain assumptions concerning zero deformation in the normal direction, zero shear due to change in temperature in an infinitesimally small element of the plate, and the "law of plane sections" in the determination of the aerodynamic pressure. It is shown that the time behavior of the displacement (the flutter) depends both on the velocity of the incoming stream and on the variation of the modulus of elasticity with time and temperature. An analysis of all these factors shows that the dynamic critical velocity of the flutter is smaller than the critical velocity obtained from the quasistatic theory, and in the case of sufficiently small damping the difference between the two can be quite large. Orig. art. has: 37 formulas.

ASSOCIATION: Institut matematiki i mekhaniki Akademii nauk Armyanskoy SSR (Institute of Mathematics and Mechanics, Academy of Sciences ArmSSR)

Card 2/3

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103010010-5

L 26335-65
ACCESSION NR: AP5002648

SUBMITTED: 02Apr64 ENCL: 00 SUB CODE: AS, ME
NR REF SOV: 008 OTHER: 001

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103010010-5"

BAGDASARYAN, G.Ye.; GHUNI, V.TS.

Nonlinear problem of the stability of an anisotropic cylindrical shell. Izv. AN Arm. SSR. Ser.fiz.-mat.nauk 18 no.2:32-38 '65.
(MIRA 18:6)

1. Institut matematiki i mekhaniki AN Arzjanskoy SSR.

L 14634-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(k)/EWA(h)/ETC(m)-6 IJP(c)
ACC NR: AP6002674 WW/EM SOURCE CODE: UR/0252/65/041/00^b/0199/0203

AUTHOR: Bagdasaryan, G. Ye.; Gnuni, V. Ts.

45
B

ORG: Institute of Mathematics and Mechanics, Academy of Sciences, Armenian SSR
(Institut matematiki i mekhaniki Akademii nauk Armyanskoy SSR)

TITLE: Oscillations of a cylindrical shell filled with a liquid of variable depth

SOURCE: AN ArmSSR. Doklady, v. 41, no. 4, 1965, 199-203

TOPIC TAGS: shell theory, cylindrical shell structure, shell structure dynamics,
shell vibration

ABSTRACT: The paper presents a theoretical discussion of the oscillation of a
circular cylindrical shell filled to a variable depth with an incompressible fluid.
The mean surface of the thin shell serves as the coordinate plane and the shell is
assumed to satisfy the hypothesis of nondeforming normals (V. Z. Vlasov, Obshchaya
teoriya obolochek, Gostekhizdat, 1949). It is also assumed that the wave motion
on the free surface of the liquid has only a slight effect on the oscillations of
the shell. The calculation is based on shell oscillation and potential liquid
motion equations which are transformed into a system of ordinary differential
equations with variable coefficients by means of the Bubnov-Galerkin variation method.
It is shown that under certain conditions the depth variation of the liquid may lead
to a decrease or increase in the natural frequency of the shell. Orig. art. has:
17 formulas.

26

[08]

Card 1/2

Z

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103010010-5

L 14634-66

ACC NR: AP6002674

SUB CODE: 201 SUBM DATE: none/ ORIG. REF: 003/ OTH REF: 001/ ATD PRESS: 4199

Card 2/2 BC

APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103010010-5"

L 23069-66 EWT(m)/EWP(w)/ETC(m)-5 LJP(c) WW/EM

ACC NR: AP6011330

SOURCE CODE: UR/0198/66/002/003/0021/0026

AUTHOR: Bagdasaryan, G. Ye. (Yerevan); Gnumi, V. Ts. (Yerevan)

ORG: Institute of Mathematics and Mechanics, AN ArmSSR (Institut matematiki i mehaniki, AN ArmSSR)

TITLE: Parametric vibrations¹ of a cylindrical shell filled² with liquid of a variable depth

SOURCE: Prikladnaya mehanika, v. 2, no. 3, 1966, 21-26

TOPIC TAGS: vibration theory, parametric vibration, parametric resonance, cylindrical shell vibration, shell liquid system

ABSTRACT: The problem of the parametric vibration of a circular cylindrical shell with constant wall thickness filled with incompressible liquid of variable depth is analyzed under the assumption that the shell is acted upon by longitudinal parametric force $P_0 + P_1 \cos \theta t$ and internal pressure q . A system of equations expressing the dynamic stability of a shell (equation for the deflection w and the stress function ϕ) and the equation for the potential function ϕ of the disturbed liquid motion with certain boundary conditions are written, using the following simplifying assumptions: 1) the Kirchhoff-Love hypothesis on preservation of normals; 2) well known simplifications in the theory of shells with a large index of variation; 3) the motion of a liquid in a shell is potential; 4) the wave motion of the free surface of a liquid

Card 1/2

L 23069-66

ACC NR: AP6011330

has very little effect on the vibration of the shell. Assuming that the end of the shell is hinged, w and ϕ are written in the form of finite trigonometric series with unknown functions $W_s(t)$ and $\phi_s(t)$ ($t = 0, 1, \dots, n$). It is shown that $\phi_s(t)$ as well as all vibration characteristics can be expressed in terms of $W_s(t)$. A system of ordinary differential equations for determining the function $W_s(t)$ is derived from the equations of the dynamic stability of the shell, using the Bubnov-Galerkin variational method. The case $N = 0$ is investigated in more detail. Equations for determining the critical values of the parametric resonance of a shell filled with a liquid of variable depth are derived. Orig. art. has: 29 formulas. [LK]

SUB CODE: 20/ SUBM DATE: 26Apr65/ ORIG REF: 003/ OTH REF: 001/ ATD PRESS:

4234

Card 2/2 *Sw*

ACC NR: AP7002691

SOURCE CODE: UR/0424/66/000/006/0050/0056

AUTHOR: Bagdasaryan, G. Ye. (Yerevan); Belubekyan, M. V. (Yerevan)

ORG: Institute of Mathematics and Mechanics, Academy of Sciences, Armenian SSR
(Institut matematiki i mekhaniki AN ArmSSR)

TITLE: Flutter of a cylindrical shell in a flow of a compressible conductive fluid
in presence of a magnetic field

SOURCE: Inzhenernyy zhurnal. Mekhanika tverdogo tela, no. 6, 1966, 50-56

TOPIC TAGS: cylindric shell^{structure}, shell flutter, ~~shell~~ stability, magnetic
field, ~~flutter~~, aero magneto flutter, aero elastic flutter, shell vibration,
supersonic flow, gas flow fluid flow, compressible fluid

ABSTRACT: The dynamic stability of an infinite circular cylindrical shell is investigated in an outer longitudinal supersonic flow of an electrically perfectly conductive inviscid gas with a certain undisturbed velocity at infinity. Inside the shell the gas is at rest under pressure equal to that of the undisturbed gas flow. There is an outer magnetic field parallel to the shell axis. The investigation is carried out assuming the validity of the following assumptions:

1) Kirchhoff-Love hypothesis on nondeformable normals; 2) conventional simplifications in the theory of shells with a large index of variation; 3) disregard of the electromagnetic effects in the shell; 4) equality to unity of the magnetic and dielectric permeabilities of the gas and of the shell material; 5) correctness of the Maxwell equations for the vacuum in the inner space of the shell. The following initial

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ACC NR: AP7002691

equations and relationships are used in accordance with these assumptions: a) the equations of magnetogasdynamics for the outer space of the shell; b) the equation of the shell motion; c) an expression for the normal component of the outer surface load; and d) the equations of the magnetic and electric fields in the vacuum. Equations (a) and (d) are linearized on the assumption that the disturbances are small, and linearized equations (e) are obtained which describe the states in the outer and inner spaces of the shell and satisfy the boundary conditions on both surfaces of the vibrating shell. A characteristic equation is obtained (by a simultaneous solution of equations (a) to (e)) from which the natural frequency w and the divergence speed U (by putting $w = 0$) of the shell can be determined. The effects of Mach and Alfvén numbers, of the rate of elastic wave propagation V , and of magnetic field intensity on U are mentioned. The condition of attaining the flutter speed M_f , as well as instability regions of the shell are discussed, and an expression for M_f in the case when $V < U$ is derived. Orig. art. has: 3 figures and 43 formulas.

[WA-52]

SUB CODE: 20/ SUBM DATE: 31Aug66/ ORIG REF: 004/

Card 2/2

NOVOKHATKO, E.I.; BAGDASAR'YAN, I.M.

System of program control for the 6L12P and 6L82G milling machines.
Stan.i instr. 34 no.4:11-14 Ap '63. (MIRA 16:3)
(Milling machines--Numerical control)

BAQDASARYAN, K.A.

Universal milling cutter. Neftianik 6 no.8:20-21 Ag '61.
(MIRA 14:10)
1. Nachal'nik laboratorii Tsekha nauchno-issledovatel'skikh
proizvodstvennykh rabot neftepromyslovogo upravleniya Karadagneft'.
(Oil wells---Equipment and supplies)

BAGDASARYAN, K.A.; ABDULLAYEV, Z.S., starshiy inzh.

Introduce diamond bits in deep well drilling. Neftianik 6
no.12:7-8 D '61. (MIRA 14:12)

1. Nachal'nik laboratorii tsekha nauchno-issledovatel'skikh
proizvodstvennykh rabot neftepromyslovogo upravleniya Karadagneft'
(for Bagdasaryan). 2. Laboratoriya tsekha nauchno-issledovatel'
skikh proizvodstvennykh rabot neftepromyslovogo upravleniya
Karadagneft' (for Abdullayev).
(Azerbaijan--Oil well drilling and supplies)

BAGDASARYAN, K.G.

Some new and little-known lamellibranchiate mollusks from
Chokrak deposits of Georgia. Trudy Inst. paleobiol. AN Gruz.
SSR no.6:57-65 '61. (MIRA 15:3)
(Georgia--Lamellibranchiata, Fossil)

BAGDASARYAN, K.G.; ZHGENTI, Ye.M.

Transition beds between the Chokrak and Karagan horizons. Izv.
Geol. ob-va Gruz. 2 no.1:15-24 '62. (MIRA 17:3)

BAGDASARYAN, K.G.

Origin and development of the Chokrak fauna. Trudy
Inst. paleobiol. AN Gruz. SSR 7:111-135 '62. (MIRA 17:7)

BAGDASARYAN, K.G.

Role of migrations in the genesis and development of the
Chokrak fauna. Trudy Inst. paleobiol. AN Gruz. SSR 8:
97-102 '63. (MIRA 17:7)

BAGDASARYAN, Klara-Grigor'yevna, mlad. nauchn. sotr., kand.
geol.-miner. nauk; DAVITASHVILI, L.Sh., red.

[Development of Chokrak mollusks in Georgia] Razvitie
molluskovoi fauny chokraka Gruzii. Tbilisi, Metsnereba,
1965. 230 p.
(MIRA 18:7)

1. Institut paleobiologii AN Gruz.SSR (for Bagdasaryan).

BAGDASARYAN, KH.S.

The relation between adsorption of dyes on silver bromide and their sensitizing power. A. I. Rabinovich and Kh. S. Bagdasaryan. *Trans. Astro-Photo Research Inst. (Moscow)* 3, 3-13 (1935).—Of a group of dyes tested for adsorption on AgBr, all the sensitizers, pyronine G, rhodamine B, eosin, phloxin and erythrosin were adsorbed more or less strongly, while acid rhodamine and Bordeaux B, which do not sensitize, were not adsorbed. When the adsorption is plotted against the concn., the curves at first show little or no increase with the concn. with the strong sensitizers, but after a certain concn. is reached, the adsorption coeff. increases rapidly.

C. K. K. Mees

450-SEA METALLURGICAL LITERATURE CLASSIFICATION

BAGDASAR'YAN, KH. S. REDUCTION AND COMBUSTION OF METALS

CO

Z

Heterogeneous reactions with atomic hydrogen. Reduction of oxides, sulfides and halogen compounds. Kh. S. Bagdasar'yan and V. K. Semenchenko. *J. Phys. Chem. (U. S. S. R.)* 6, 1033 (1935).—From studies of the reducing action of at. H on compds. of 22 common metals in the solid phase given as (+) or (-), it is concluded that the reducibility or nonreducibility is detd. by the heat necessary for dissoci. to the elements of the compd., and the ratio of ionic radius to charge, all results obtained being in accord with predictions from these considerations.

F. H. Rathmann

APPENDIX A METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION	SEARCHED	INDEXED	FILED	SEARCHED	INDEXED	FILED
1	✓	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓	✓
3	✓	✓	✓	✓	✓	✓
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6	✓	✓	✓	✓	✓	✓
7	✓	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✓	✓

Bagdasaryan, Kh.

2

Atomic hydrogen. Kh., S., Bagdasaryan. Usp. fiz. Khim. 5, 39-65(1930). A review covering the measurement of H-atom concn., physicochem. consts. of at. H, vol., triple collision, heterogeneous and wall recombination and chem. reactions at low and high temps. with atoms and simple and complex molcs. F. H. Rathmann

AMERICAN METALLURGICAL LITERATURE CLASSIFICATION

CLASSIFICATION	SEARCHED	INDEXED	FILED	SEARCHED	INDEXED	FILED
10-2000-01	Y	Y	Y	Y	Y	Y

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS																																																																	
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<p>metastable reactions with atomic hydrogen. II. Formation of hydrogen sulphide. III. Formation of hydrides of selenium, tellurium, and antimony. O.G. XAMPARAYAN (J. Phys. Chem. Russ., 1927, 50, 288-300, 401-411).—II. The rate of reaction of at. H with solid S or [M] in the extended phase. 20% of the H atoms striking the surface of the S react with it.</p> <p>III. The rate of reaction of at. H with solid Se, Te, and Sb or [H] in the extended phase. 10% of the M atoms striking the surfaces of Se and Te react, the corresponding figure for Sb being 11%. On the surface of Sb the probability of recombination of M atoms is < 10 times as great as that of their forming SbH_n, a reaction without appreciable energy of activation. The mechanism of the above reactions is undecided.</p> <p style="text-align: right;">R. C.</p>																																																																											
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<p>ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION</p> <table border="1"> <tr> <td colspan="2">SUBJECTIVE</td> <td colspan="2">THEORY</td> <td colspan="2">METHODS</td> <td colspan="2">GENERAL</td> </tr> <tr> <td colspan="2">SUBJECTIVE</td> <td colspan="2">THEORY</td> <td colspan="2">METHODS</td> <td colspan="2">GENERAL</td> </tr> <tr> <td>M</td><td>S</td><td>A</td><td>H</td><td>D</td><td>O</td><td>N</td><td>T</td><td>M</td><td>E</td><td>R</td><td>P</td><td>I</td><td>C</td><td>L</td><td>F</td><td>G</td><td>S</td><td>R</td><td>U</td> <td>M</td><td>S</td><td>A</td><td>H</td><td>D</td><td>O</td><td>N</td><td>T</td><td>M</td><td>E</td><td>R</td><td>P</td><td>I</td><td>C</td><td>L</td><td>F</td><td>G</td><td>S</td><td>R</td><td>U</td> </tr> </table>																				SUBJECTIVE		THEORY		METHODS		GENERAL		SUBJECTIVE		THEORY		METHODS		GENERAL		M	S	A	H	D	O	N	T	M	E	R	P	I	C	L	F	G	S	R	U	M	S	A	H	D	O	N	T	M	E	R	P	I	C	L	F	G	S	R	U
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Q

CHUDARAJAN, K.

A-1

Optical sensitization of silver halides. VI.

Quantum yield in the photo-decomposition of sensitized silver bromide in connection with the theory of sensitization. C. S. RAJDARAJAN (Acta Physicochim. U.R.S.S., 1938, 8, 206-207).

Photo-decomp. of a highly disperse suspension of AgBr in H₂O, containing a slight excess of Br⁻, by blue light (4300 Å.) proceeds with a quantum yield γ of 1 in presence of Ba-NaNO₃ as acceptor, if the AgBr contains adsorbed erythrosin (I), photodecomp. by yellow light (5790 Å.) in the absence of NaNO₃ is accompanied by decolorization of (I), and $\gamma = 0.03 - 0.07$; in presence of NaNO₃, $\gamma = 0.1$, and no destruction of (I) occurs. Increase in [(I)] does not affect γ . The destruction of (I) in absence of NaNO₃ is due probably to oxidation by liberated Br⁻. Pyronine G gives $\gamma \sim 0.06$. Each mol. of (I) liberates an average of 4-5 atoms of Ag in presence of NaNO₃. The low val. of γ in the sensitization of AgBr by (I) indicates the existence of side processes, tending to deactivate the mol. excited by (I). The possible mechanisms of sensitization are discussed.

W. R. A.

AB-15A METALLURGICAL LITERATURE CLASSIFICATION

SECOND 4										SECOND 5										SECOND 6									
SECOND 4										SECOND 5										SECOND 6									
1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10
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1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	10

BAGDASAR'YAN, K.H.

PROCESSED AND PROPRIETARY CODES

Optical sensitization of photographic films. K. H. Bagdasar'yan. *Uspeshki Khim.*, 8, No. 11, 1617-51 (1939); *Khim. Referat. Zhur.* 1940, No. 7, 112; cf. C. A. 33: 57801.—A review of the latest phys.-chem. investigations in the domain of optical sensitization of Ag halides. In the basis of contemporary quantum-mech. views, it discusses problems of the formation of photographic images, photochem. decompn. of Ag halides, phys.-chem. state of the system sensitizer-Ag halide and the latest photochem. studies of this system. The theory of the mechanism of optical sensitization, especially the theory of "2nd order collisions" and the theory of Gurney and Mott of the ionic reduction of Ag by the dye, are discussed critically. New exp'l. data of optical sensitization obtained by B. are given. Investigations of the role of I₂ in the processes of sensitized photolysis indicate that under illumination with blue light in the presence of an acceptor, such as NaNO₃, the reaction proceeds with a const. velocity and with a quantum no. equal to 1. Replacing NaNO₃ with Na₂NO₃ produces a quantum yield of less than 1 and a decoloration of the dye. Investigations of the kinetics of photochem. decompn. of sensitized AgBr indicate that in a neutral medium there is observed an induction period which is absent in strongly alk. media. The quantum yield of sensitized photolysis increases with decrease in the wave length. W. R. Henn

ASH-SLA METALLURGICAL LITERATURE CLASSIFICATION

CLASS SYSTEM

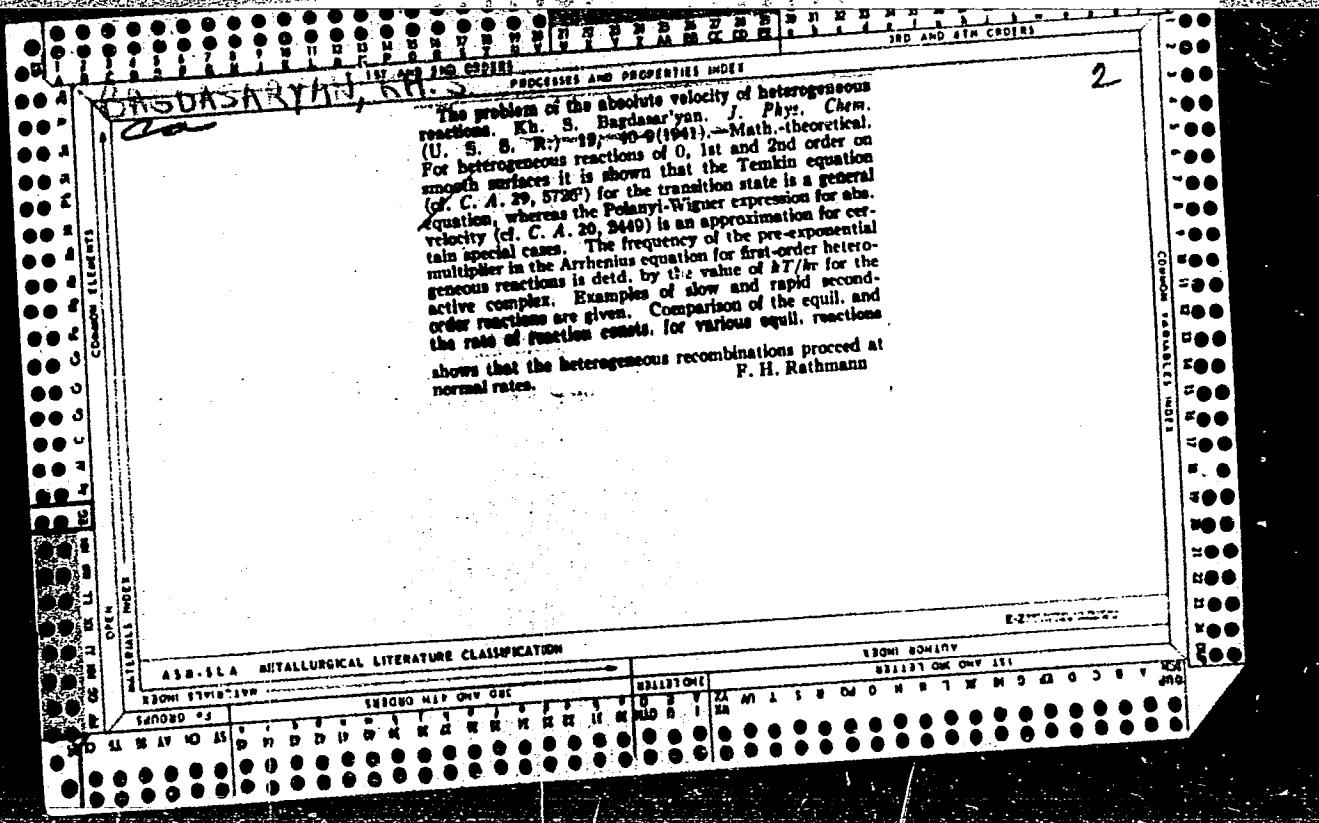
VERSION

REVISION

EXPLANATION

BAGDASARYAN, Kh. S.

"Bond Energies and Departure From/Additivity Rule in Hydrocarbons,"
the
Fiz. Khim., No.14, pp 1326-38, 1940

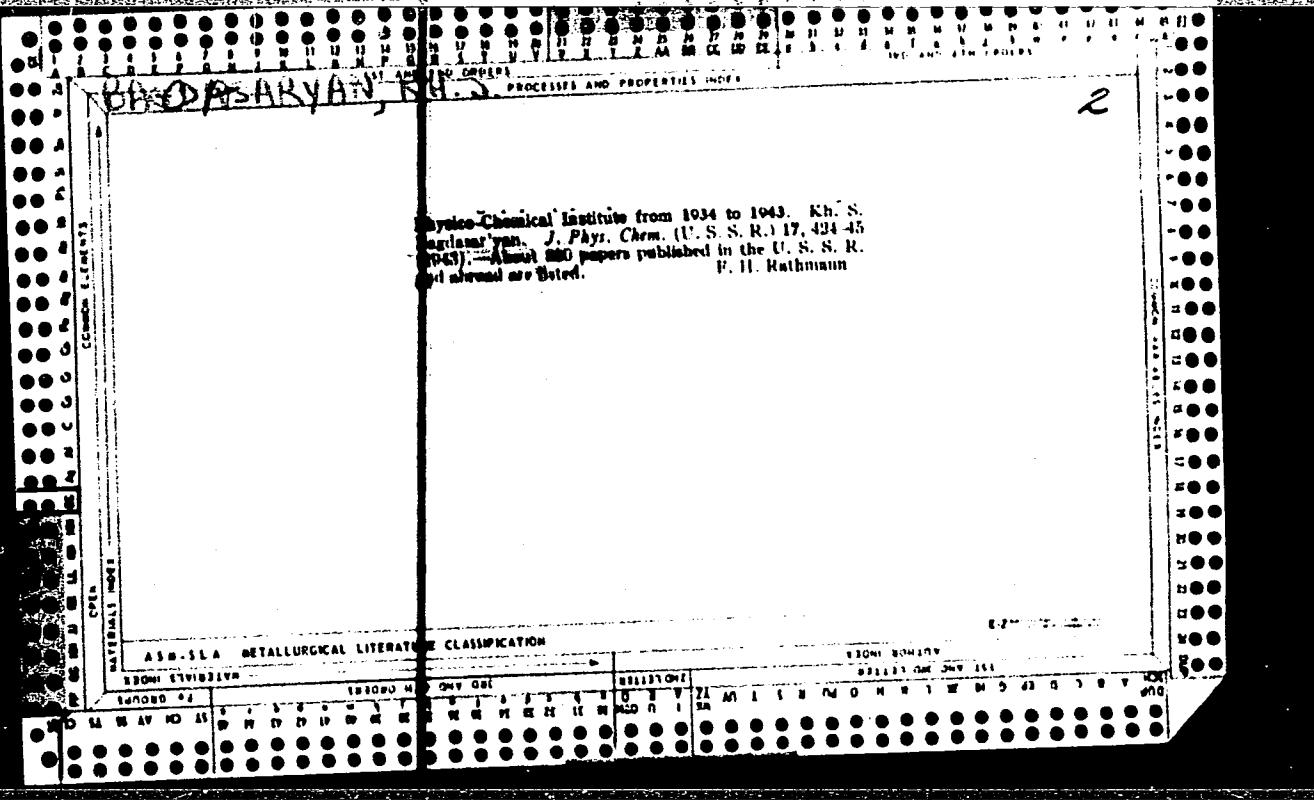


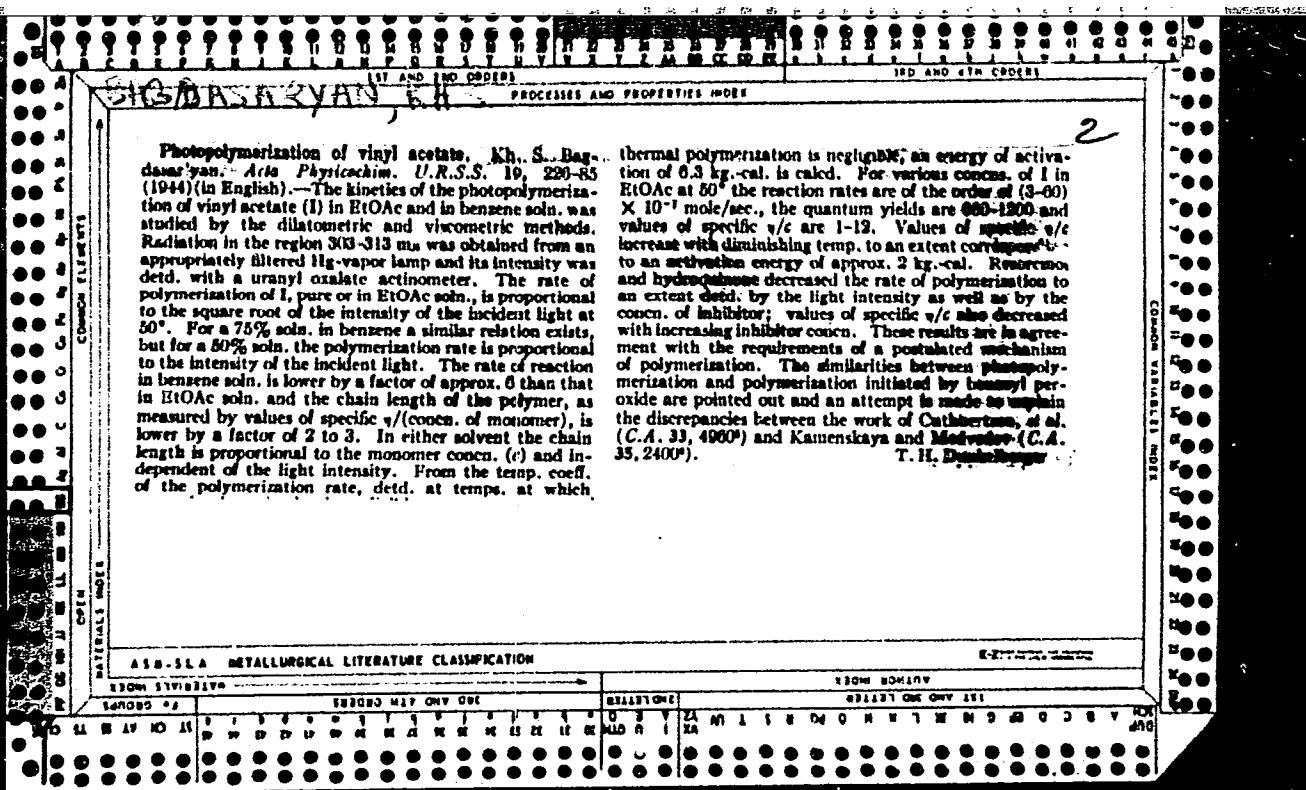
BAGDASARYAN, KH.

Xinetics and mechanism of photographic development
1. Xinetics of the development of individual grains.

Kh. B. Bagdasaryan. *J. Phys. Chem. (U. S. S. R.)* 17, 338-48 (1943). — The kinetics of the phys. and chem. development of individual grains can be interpreted on the basis of modern electrochem. conceptions by assuming that the slowest stage of the process is the transfer of an electron from the mol. of the developer to the Ag particle of the latent image or partly developed grain. The velocity of this process depends on the value of the potential jump on the Ag-soln. boundary. The theory of supersat., the diffusion theory of Frank-Kamenetskii (*C. A.* 34, 5729) and the theory of Anastasovich (*C. A.* 37, 30019) are not in conformity with the kinetics of development of the individual grains. F. H. Rathmann

APPENDIX A METALLURGICAL LITERATURE CLASSIFICATION





БАДЫКАН, А.Р.С. ПРОЦЕССЫ И РЕАКТИВЫ

Influence of bromide ions upon photographic processes.
Kh. S. Badalyan. *Aita Fizikaum, U.R.S.S.* 19, 430-47(1944)(in English).--Certain primary and secondary electronic processes involved in the photolysis of AgBr, optical sensitization and desensitization, and the Herschel effect are interpreted in terms of the transition of electrons from the AgBr crystal conduction band to the adsorption layer (or skin) of the metal. The charge resulting from adsorption of bromide ions at the AgBr

surface facilitates the departure of electrons from the AgBr crystal and inhibits the reverse process. In the photolysis, the quantum yield depends on the rate at which the Br atoms leave the lattice. Excess bromide ions inhibit the reaction of Br with halogen acceptors; this retards photolysis. The effect of bromide ion on optical sensitization and desensitization and the Herschel effect is interpreted in terms of its effect upon the electron transitions.
T. H. James

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

SCROLL LEVEL 1000

SEARCHED 04

SERIALIZED 04

INDEXED 04

FILED 04

SEARCHED 04

SERIALIZED 04

INDEXED 04

FILED 04

BAGDASHYAN, KH.

Kinetics and mechanism of photographic development.
 II. Kinetics of development of the photographic layer.
 (A new equation for the kinetics of nucleus formation in topochemical reactions.) Kh. S. Bagdasar'yan (Karpov Inst. Phys. Chem.). *Avt. Pechatn. T.R.S.S.R.* 20, 441-48 (1948); cf. C.I. 39, 2459. The rate of development is controlled by the rate of formation of development nuclei and by the rate of nuclear growth. Development nuclei are formed during the induction period at the spots where latent-image particles are located. The same process of electron reduction of AgBr occurs in nuclear formation as in nuclear growth, the former requiring only addit. activation energy. It assumes that a latent image particle must increase by ρ Ag atoms to become a development nucleus, and the time necessary will vary for different nuclei owing to fluctuations. Using simplifying assumptions, he derives an equation for nucleus formation which gives an S-shaped curve. The kinetics of development are considered for 2 cases: (1) the av. time for nucleus formation is considerably greater than that for propagation of reaction through the whole grain, (2) the times are about equal. S-shaped curves representing the no. of developed grains as a function of time can be obtained in each case. The dependence of curve shape on the charge of the active developing agent is accounted for by the assumption that the higher the charge the greater the value of ρ . The applicability of the nucleus formation equation to other topochem. reactions is considered.

T. H. James

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AMSLA METALLURGICAL LITERATURE CLASSIFICATION

EDITION 1964 EDITION 1970 EDITION 1974 EDITION 1978

EDITION 1964

EDITION 1970 EDITION 1974 EDITION 1978

BAGDASHARYAN, KH. S.
P.A.

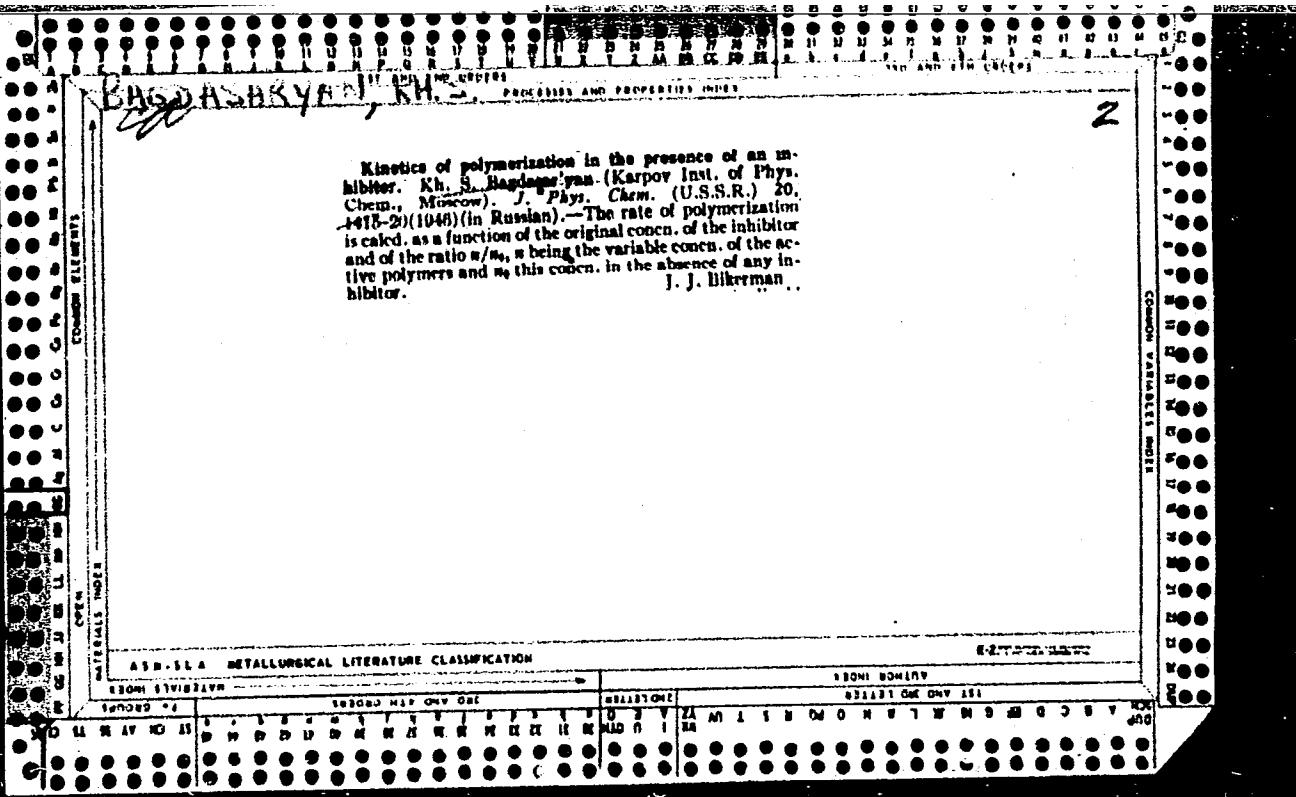
Densitizing + Sensitometry.

447

771.534.53 : 771.535

Physicochemical Interpretation of the Characteristic Curve of the Photolayer.
KH. S. BAGDASHARYAN. J. Tech. Phys. (U.S.S.R.), 16, 703-12, 1946.—It is assumed (a) that the probability of a photoelectron being neutralized by a silver ion depends on the depth of the potential depression in which the electron is located, (b) that the frequency of a potential depression having the energy $\Sigma_n(1-x)$ is proportional to x , (c) that a latent image nucleus must have q or more atoms of silver. The equation $N/N_n = 1 - \exp. [-A(\log E - \log B)]$ is derived for the ratio of the developed grains N to the total number of grains N_n . A is a constant inversely proportional to $\Sigma_n\Sigma_1$ being the deepest potential depression in the layer. B is a constant inversely proportional to Σ_1^2 and proportional to q . E is the average number of light quanta absorbed by a grain. The equation agrees with experiment. From the experimental data, q is calculated to be 9 to 29; probably this value is too high because only silver nuclei at the grain surface are effective. The tangents to the curves " N/N_n against $\log E$ " in their inflection points cross in one point, if several curves referring to one emulsion but different times of development are compared. If all the nuclei are equally effective, this point of crossing lies below the abscissa; and if one nucleus in a grain is more effective than the others, this point lies above the abscissa. These conclusions agree with the results of NIETZ. ("Theory of Development." Monograph from the Eastman Kodak Co., Rochester, N.Y., 1922).

Chem. Abs.



BAGDASAR'YAN, KH.

PA 54T28

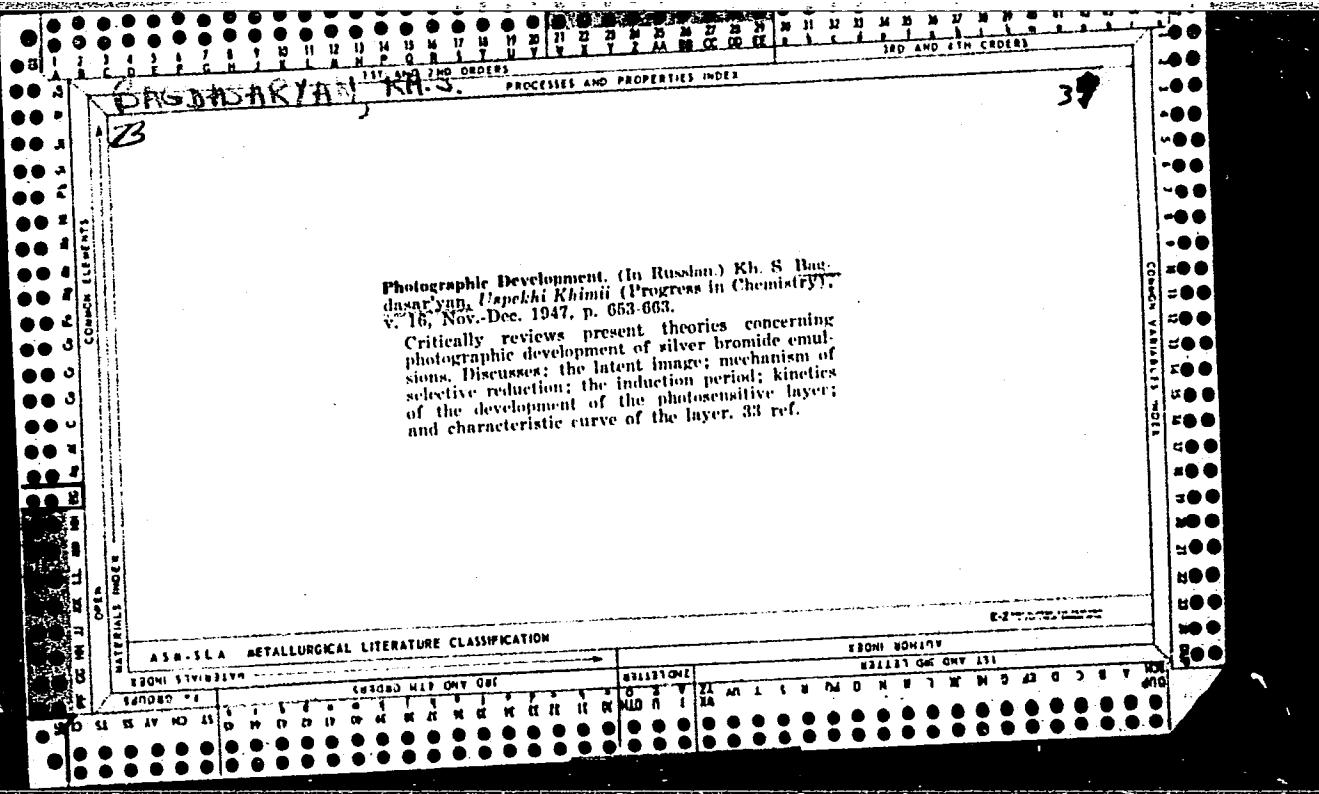
USSR/Chemistry - Photography Nov/Dec 1946
Chemistry - Emulsions

"Physico-Chemical Interpretation of the Characteristic Curve of the Photolayer," Kh. Bagdasar'yan, Karpov Inst Phys Chem, Moscow, 14 pp

"Acta Physicochimica URSS" Vol XXI, No 6

Deduction of a characteristic equation for photolayer (Hurter and Drifffield curve). Discusses properties of curve, tangentials at inflexion points, and limiting cases. Received, 10 Oct 1945.

54T28



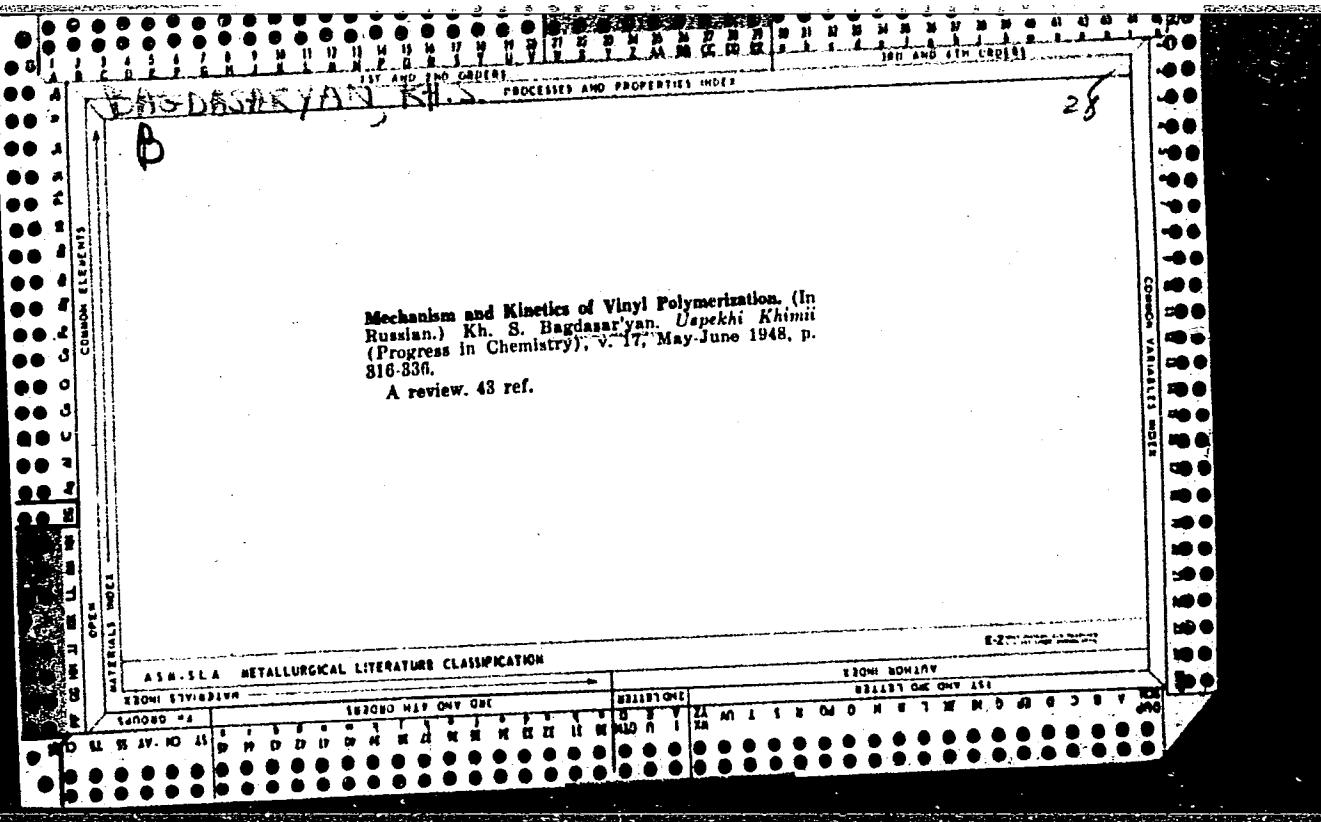
GASDASHARYAN, KH.

PHOTOCHEMISTRY AND POLYMERIZATION

Photopolymerization of vinyl compounds. II. Photopolymerization of methyl methacrylate. Kh. S. Bagdasaryan, Akademy Inst. Phys. Chem., Moscow. *Zhurn. Akad. Nauk. Ukrainsk. SSR. Fiz.-Khim. Nauki*, 1947, No. 1, p. 35; *Voprosy Kinetiki i Polimerizatsii*, No. 3, 1947 (in Russian); cf. *C.A.* **39**, 24172. The rate V of polymerization of methyl methacrylate (M) is $V = k M^{1.2} \propto I^2$, M being the original concn. of the monomer, I the light intensity, and k const. This equation is valid for small degrees of polymerization (less than 8%), for irradiation I and for solvents, in C_6H_6 , Acetone, CCl_4 , and $EtOH$. When the vol. w of the reaction vessel is varied between 2 and 24 cm³, the fraction $V/N^2 J w$ remains const., J being the no. of quanta absorbed. This shows that polymerization occurs uniformly in the whole vol., although the vessel is irradiated from one side only. I at 50° is twice that at 25°. The intrinsic viscosity of the polymer, in a range of 100–1400, increases linearly with the exposure. The fraction $V/N^2 J w$ at 363–313 nm is 3 times that at 253–265 nm. The absorption coeff. of I for these spectral ranges is detd. The quantum yield of the polymerization is detd. The quantum yield of the polymerization is, e.g., 40 for $M = 0.73$ mol/l. in $EtOAc$ and 340 for pure M . The mechanism of the polymerization is discussed. The length of the mol. chains is detd. by the recombination of active radicals. Not all quanta absorbed initiate reaction chains. The efficiency of the primary process increases when M decreases and the wave length increases. J. J. Bikerman

AMERICAN METALLURGICAL LITERATURE CLASSIFICATION

GENERAL SUBJECT	GENERAL SUBJECT	GENERAL SUBJECT
100000-24	100000-24	100000-24
200000-40	200000-40	200000-40
300000-55	300000-55	300000-55
400000-65	400000-65	400000-65
500000-75	500000-75	500000-75
600000-85	600000-85	600000-85
700000-95	700000-95	700000-95
800000-00	800000-00	800000-00
900000-00	900000-00	900000-00



BAGDASARIAN, KH. S.

Kh. S. Bagdasarian, Photopolymerization of vinyl compounds. III. Photopolymerization of methyl acrylate. pp. 1121-91.

The photopolymerization of methyl acrylate in an ethyl acetate solution is proportional to the square root of the light intensity. The dependence of the polymerization rate on the concentration of the monomer points to the effect of the quenching reactivation of the primary excited molecules. The yield of primary radicals is twice as large for metacrylate as for acrylate.

The Karpov Physico-Chemical Inst.
Lab. of Polymerization Processes, Moscow
January 28, 1948

SO: Journal of Physical Chemistry (USSR) 22, 10, 1948.

BAGDASAR'YAN, KH. S.

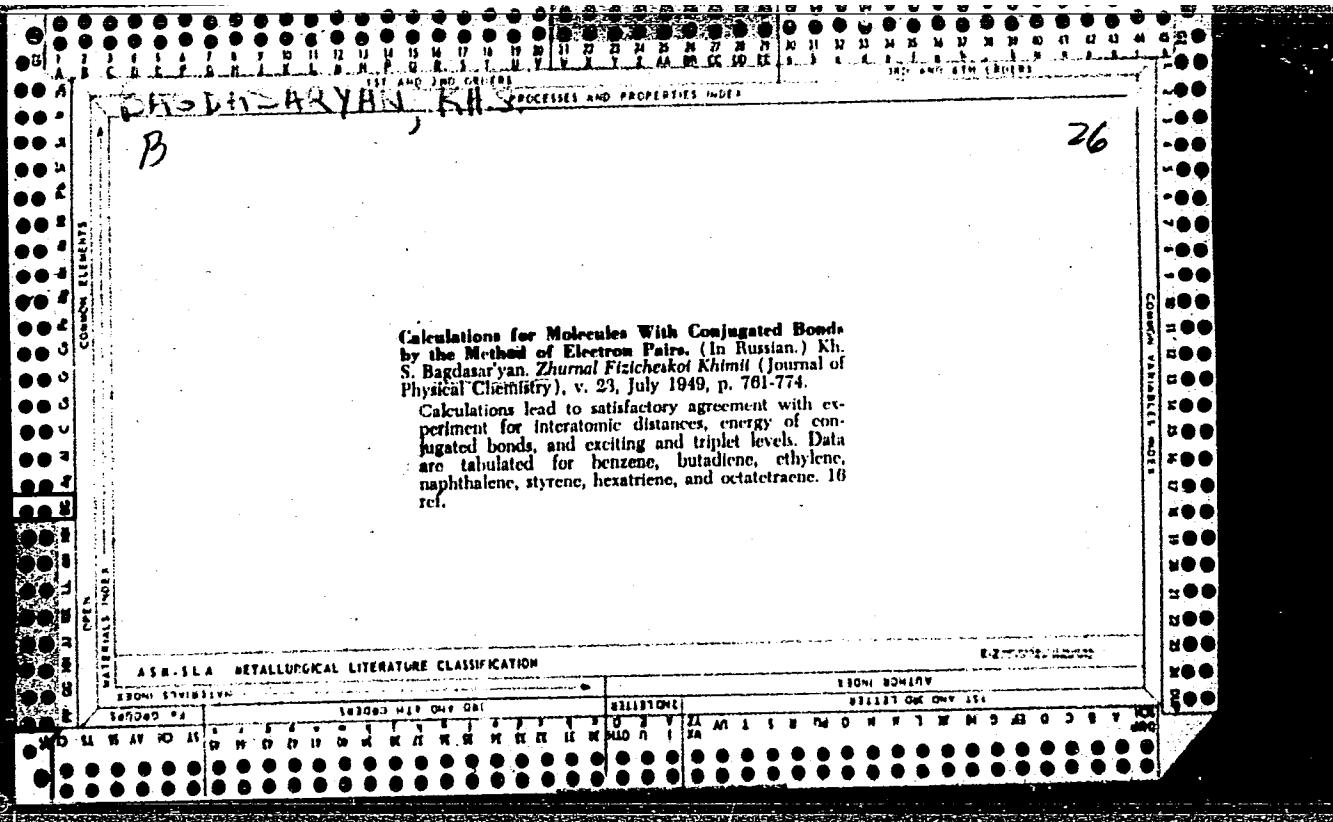
Bagdasar'yan, Kh. S. "On the connection between the structure of vinyl compounds and their polymerization properties," In the symposium: Investigations in the field of complexmolecular compounds, Moscow-Leningrad, 1949, p. 339-58 Bibliog: 20 items

SO: U-5241, 17 December 1953, (Letopis 'Zhurnal 'nykh Statey, No. 26, 1949)

BAGDASAR'YAN, Kh. S.

36506. O Svyazi Mezhdus Stroeniyem Vinilovykh Soedi. Neniy i Ikh Sposobnost'yu K Polimerizatsii. Zhurnal Fiz. Khimii, 1949, Vyp. 11, c. 1375-84. - Bibliogr: 18 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949



CH BAGDASARYAN, KH.S.

✓

Relation between the structure of vinyl compounds
and their polymerization capacity. Kh. S. Bagdasaryan
(Karpov Inst. Phys. Chem., Moscow). *Zhur. Fiz.
Khim.* 23, 1375-81 (1949). — Polymerization is thermo-

dynamically possible only if the heat Q of polymerization is
greater than 8000 cal./mol. (of monomer). The exptl.
 Q is 11,000-22,000; it is smaller, the greater the conjugation
energy lost in the polymerization and the greater
the steric hindrance. The effect of structure on the rate
of chain growth and the rate of acquisition and loss of a
H or halogen atom is discussed. The energy of activation
is calc'd. for polymerizations that do and do not involve
conjugated bonds. J. J. Bikerman